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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/767,130	01/28/2004	Robert A. Cochran	200210226-1	4298		
23879 GM19/2009 HEWLETT PASKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80257-2400			EXAM	EXAMINER		
			COULTER, KENNETH R			
			ART UNIT	PAPER NUMBER		
	-,		2441			
			NOTIFICATION DATE	DELIVERY MODE		
			03/19/2009	ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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COCHRAN, ROBERT A. 10/767,130 Office Action Summary Examiner Art Unit

Application No.

Applicant(s)

		Kenneth R. Coulter	2441				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
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Status							
2a)□	Responsive to communication(s) filed on 28 Ja This action is FINAL . 2b)∑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro		e merits is			
Dispositi	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-33 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or						
Applicati	ion Papers						
9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 3. Copies of the certified copies of the priority accuments application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National	Stage			
A 44 b	440)						
Attachmen	re of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				

- Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/S5/05)
 - Paper No(s)/Mail Date 7/20/04.

- Paper No(s)/Mail Date. 5) Notice of Informal Patent Application
- 6) Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of materia, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 10 – 33 are rejected under 35 USC 101 because the claimed invention, in light of the specification (for example on page 8 (paragraph 24)), encompasses non-statutory subject matter since such reads on (encompasses) software or program per se' (In re Beauregard (CAFC) 35 USPQ2d 1383) and MPEP 2106 (new EXAMINATION GUIDELINES FOR COMPUTER-RELATED INVENTIONS). Even though drafted as "A method", each of the recited elements encompass their software or program per se' equivalent (i.e., a client such as a Netscape Web Browser and/or a server such as Apache are each software devices and yet phrased as a client and a server); thus, the whole of the method encompasses pure software or program per se'; unlike "A method executing on hardware". Also, while a hardware device claim, with functional acts, may inherently encompass a corresponding method, the same does not hold in the reverse since a corresponding method is broader in scope and can encompass a scope void of any hardware.

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filled in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treatly in the English language.

Claims 1 – 33 are rejected under 35 U.S.C. 102(e) as being anticipated by Laurent et al. (U.S. Pat. No. 7,222,176) (Apparatus and Method for Using Storage Domains for Controlling Data in Storage Area Networks).

1.1 Regarding claim 1, Laurent discloses a storage network, comprising:

a plurality of storage cells, at least one storage cell including physical storage media and a storage media controller that controls data transfer operations with the storage media (Abstract; Figs. 2, 3, 4; col. 1, lines 8 – 13; col. 3, lines 29 – 40 "Storage Domain Server"):

a plurality of host computers configurable to execute write operations to at least one storage cell; at least one write control server that regulates the write operations of one or more of the plurality of host computers (Figs. 2, 3, 4; col. 3, lines 29 – 40; col. 4, lines 38 – 48); and

a communication network that provides communication connections between the storage cells, the host computers, and the write control server (Figs. 2, 3, 4; Abstract).

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1.2 Per claim 2, Laurent teaches the storage network of claim 1, wherein the plurality of storage cells are geographically distributed (Abstract "regardless of physical location"; col. 4. line 54 – col. 5, line 9: col. 6, lines 54 – 62).

- 1.3 Regarding claim 3, Laurent discloses the storage network of claim 1, wherein at least one of the plurality of host computers executes write operations to store data in a primary storage unit (Figs. 2, 3, 4; col. 1, lines 8 13; col. 3, lines 29 40).
- 1.4 Per claim 4, Laurent teaches the storage network of claim 3, wherein data written to the primary storage unit is replicated to a secondary storage unit (col. 11, lines 41 59 "mirror MS 1" "mirror MS 2").
- 1.5 Regarding claim 5, Laurent discloses the storage network of claim 1, wherein the write control server implements a write permission queue to regulate write operations of the host computers (Abstract; col. 3, lines 29 40 "resources allocated to the host by the storage administrator"; col. 3, line 59 col. 4, line 9; col. 9, lines 54 62).
- 1.6 Per claim 6, Laurent teaches the storage network of claim 5, wherein the write control server grants write permission to only a single host computer in the write permission queue at any point in time (Abstract; Fig. 3; col. 5, lines 51 64; col. 9, lines 54 62).

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1.7 Regarding claim 7, Laurent discloses the storage network of claim 5, wherein: the write control server grants write permission to a plurality of the host computers in the write permission queue at any point in time; and the write control server maintains a write permission log (Abstract; col. 3, lines 29 – 40; col. 3, line 59 – col. 4, line 9; col. 5, lines 51 – 64; col. 9, lines 54 – 62).

- 1.8 Per claim 8, Laurent teaches the storage network of claim 5, wherein: host computers submit write requests to the write control server; and the write control server implements a reverse handicapping routine when positioning the write requests in the write permission queue (Abstract; col. 3, lines 29 40; col. 3, line 59 col. 4, line 9; col. 5, lines 51 64; col. 9, lines 54 62).
- 1.9 Regarding claim 9, Laurent discloses the storage network of claim 8, wherein the reverse handicapping routine delays incoming write requests to compensate for an estimated travel time from a host computer to the write control server (col. 3, lines 29 40; col. 3, line 59 col. 4, line 9; col. 5, lines 51 64; col. 9, lines 54 62).
- 1.10 Regarding claims 10 33, the rejection of claims 1 9 under 35 USC 102(e)(paragraphs 1.1 1.9 above) applies fully.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth R. Coulter whose telephone number is 571 272-3879. The examiner can normally be reached on M - F, 7:30 am - 4 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on 571 272-3880. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kenneth R Coulter/ Primary Examiner, Art Unit 2441

/KRC/